

Special Issue

Thin Polymer Films Properties

Message from the Guest Editors

Thin polymer films have technological applications in various industrial sectors related to protective and functional coatings, non-fouling surfaces, and so on. With the development of molecular electronics, flexible display devices or even self-cleaning surfaces, the demand for functional thin polymer or composite films is going to increase.

Polymers in thin films and nanocomposite structures can exhibit unusual physical properties due to the geometric constraints imposed by the presence of surfaces and interfaces. As a consequence, the composition, fabrication method, and external environment play a major role in the functionality and stability of these systems.

This Special Issue of *Coatings* "Thin Polymer Films" is devoted to research and review articles on the stability and characterization of the physical properties of polymer or composite thin films.

In particular, the topics of interest include, but are not limited to the following:

- Effect of confinement on the physical properties (glass transition temperature, density, mechanical properties, barrier properties);
- Effect of the interface on thin film stability;
- Aging of thin polymer film.

Guest Editors

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About the Journal

Message from the Editorial Board

Now more than ever, research is asked to deliver knowledge and technologies to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed in the spotlight of most contemporary research. Surface science and engineering play a key role in this regard, with an incredible potential in delivering new and deep scientific understanding and technical solutions essential to solve most of the major societal challenges.

Coatings is a well-established, peerreviewed, online journal dedicated to the vibrant field of surface science and engineering. Coatings publishes original research articles that report cutting-edge results and review papers that make the point on the hottest research topics.

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